

Abstract

The fuel injection system has a high-pressure side, which includes at least one high-pressure reservoir (16), in which fuel is stored at injection pressure, and at least one injector (20), communicating with the high-pressure reservoir (16), for fuel injection at a cylinder of the engine. The fuel injection system moreover has a low-pressure side, which communicates at least indirectly with a fuel tank (12). The high-pressure side has a communication (40) with the low-pressure side, which communication is controlled as a function of the fuel temperature in the high-pressure side and at a high fuel temperature is at least substantially closed, so that the high-pressure side is disconnected from the low-pressure side, and that is open at a low fuel temperature.